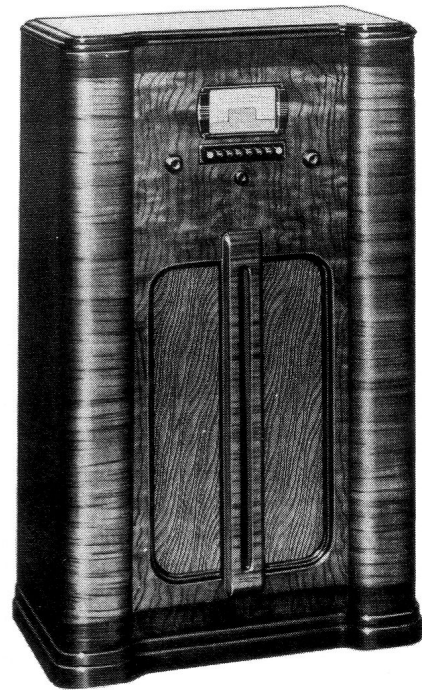


Models 740A - 741A

Seven Tube A-C Radio Receivers



Specifications

Frequency Range:

Broadcast—535 to 1710 K.C.
Shortwave—5.7 to 15.6 M.C.

Push Button Tuning:

Six Stations: Eight Buttons

Tubes:

Type	Position
6A8	1st Detector
6K7	I.F.
6J5	Oscillator
6H6	2nd Det. & AVC
6F5	1st Audio
6F6G	Output
5Y4G	Rectifier

Power Supply:

105 - 125 volts
25 to 60 cycle; 58 watt

A.V.C.:

Applied to 1st Detector & I.F.

Controls:

Volume Control with A-C switch; Continuous tone control; Manual Tuning Control.

Loudspeakers:

Model 740A — 5" E.D.
Model 741A — 8" E.D.

Power Output:

2.5 watts

Dial:

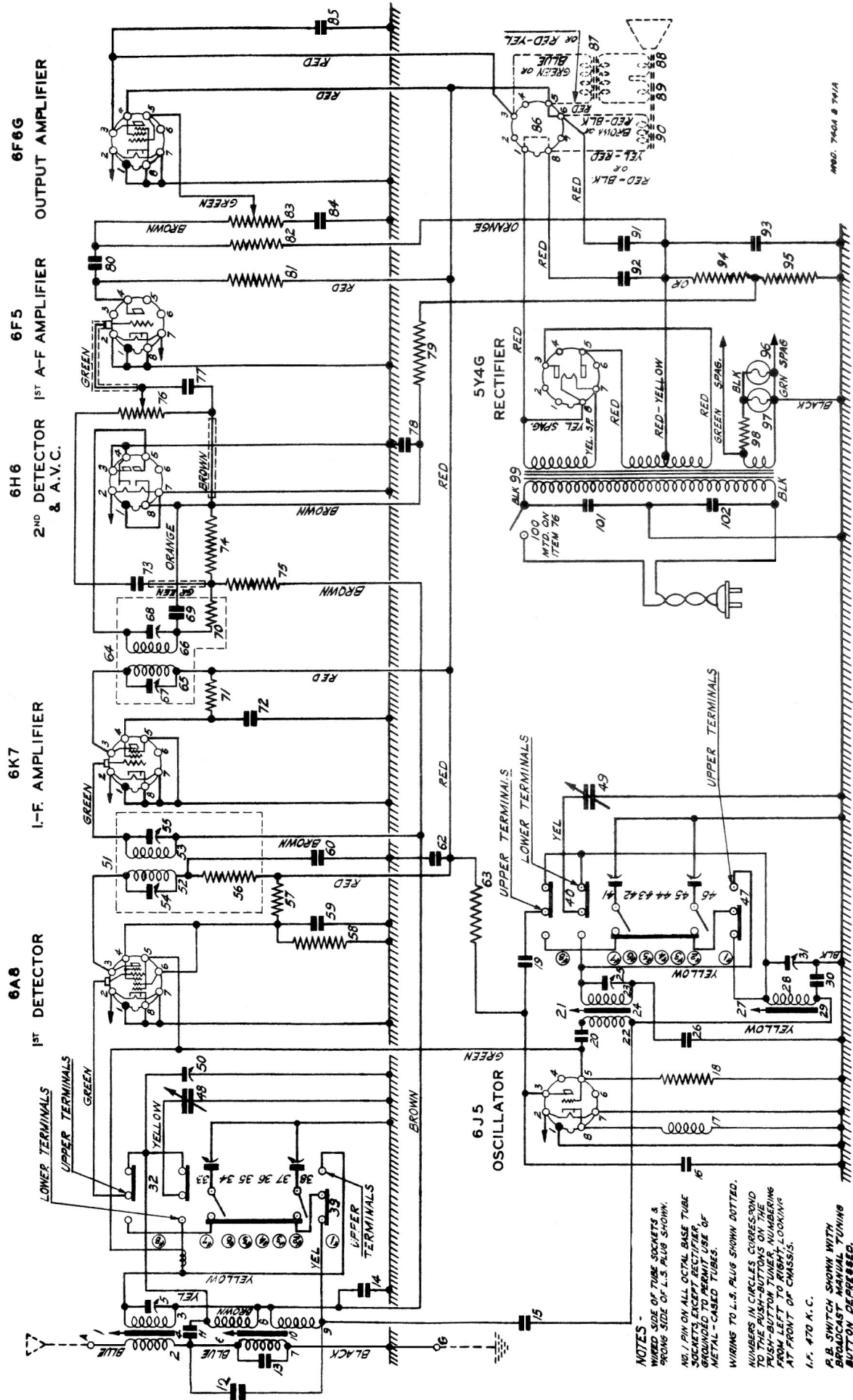
Rectangular, glass, with pointer revolving 180 degrees; edge-lighted.

Cabinet Model 740A:

Table, walnut, loudspeaker located at left-end of cabinet.

Cabinet Model 741A:

Console, walnut, heavy type quarter sliced grille bar.



NOTES -
 WIRING TO L.S. PLUG SHOWN DOTTED.
 NO. 1 PIN ON ALL OCTAL BASE TUBE
 SOCKETS IS COMMON TO ALL TUBES.
 WIRING TO REPT. USE OF
 METAL-CASED TUBES.
 NUMBERS IN CIRCLES CORRESPOND
 TO THE PUSH-BUTTONS ON THE
 PUSH-BUTTON TUNER, NUMBERING
 FROM LEFT TO RIGHT, LOOKING
 AT FRONT OF CHASSIS.
 I.F. 470 K.C.
 P.B. SWITCH SHOWN WITH
 BROADCAST MANUAL TUNING
 BUTTON DEPRESSED.

MODELS 740A-741A RADIO RECEIVERS

REPLACEMENT PARTS

Item	Description	Part No.	Item	Description	Part No.
1-3	SW.Ant. Transformer (P & S)	4665 1458-6	79	Resistor 1/4 meg. 1/2 watt	2226-4
4	SW.Ant. Trans. Iron Core		80	Cap. .02 mf. 400 volt	2228-7
5	3-25 mmf. Trimmer		81	Resistor 1/4 meg. 1/2 watt	2226-4
6-9	B.C.Ant.Transf.(P.S.& Ter.)	4684	82	Resistor 1/4 meg. 1/2 watt	2226-4
10	B.C.Ant.Transf.Iron Core		83	Tone control 1/4 meg.	4612-2
11-12	5 mmf. Mica Cap		84	Cap. .002 mf. 400 volt	2228-2
13	Cap. Mica 100 mmf.	1611-2	85	Cap. .003 mf. 400 volt	2228-3
14	Cap. .05 mf. 200 volt	2227-8	86	Speaker plug	2678
15	Cap. Mica 5 mmf.	4235-1	87	Output transf. (Model 740A)	3873-2
16	Cap. Mica 7 mmf.	1611-32	87A	Output transf. (Model 741A)	2718-11
17	R-F choke coil	3935-2	88	V.C. & diaphr. (Model 740A)	4593
18	Resistor 50,000 - 1/2 watt	2226-6	89-90	Field coil (& hum coil) 740A	4592-2
19	Cap. Mica 50 mmf.	1611-1	89A-90A	Field coil (& hum coil) 741A	3378-4
20	Cap. Mica 100 mmf.	1611-2	91-93	Cap (Triple) 20 mf. 450 volt	4470
21-24	SW.Osc.Assy.(P.S.& I.C.)	4666 1458-6	94	Resistor 200 ohm, 2 watt	1870-26
25	3-25 mmf. Trimmer		95	Resistor 30 ohm, 1/2 watt	2226-73
26	Cap. Mica 3100 mmf.		96-97	Dial lamp, 6.3 volt	2589-3
27-29	B.C.Osc.Assy.(P.& I.C.)	4664	98	Resistor 1.3 ohm	2252-17
30	Cap. Mica 500 mmf.	1611-7	99	Power trans. 25-60 cycle	3700-11
31	3-24 mmf. Trimmer	1458-6	100	A-C Switch - Part of	4663
32)	Push button switch (6)	4450-2	101-102	Cap.dual, buffers.025 mf.525 V.	3750
47)	Stations with B.C./SW- Manual switches)		<u>Miscellaneous:-</u>		
48	Ant.Sect.Tuning: 530 mmf.)		Sockets		1924-1
49	Osc.Sect.Tuning: 530 mmf.)	4439-2	Sockets		1924-2
50	Trimmer, 1.5-10 mmf.	1458-5	Sockets (D.E.capacitor)		4509-2
51 to 56	1st I-F Assy.Complete	4609	Terminal strip (A & G)		3749-1
	Coils K-4610, Trimmer K-2134-6	2226-16 1870-16 2226-44 2227-9 2228-8 2227-8 2228-9 2226-8 4545	Indicator		4631
	Resistor 1,000 ohms 1/2 watt		Pulley		4486
	Resistor 20,000 ohm, 2 watt		Spring		4487
	Resistor 30,000 ohm, 1/2 watt		Dial Cord (black)		4636
57	Cap. .1 mf. 200 volt	2227-9	Dial scale		4656
58	Cap. .05 mf. 400 volt	2228-8	Lamp sockets		2835-2
59	Cap. .05 mf. 200 volt	2227-8	Speaker less O.T.Model 740-a		4592-2
60	Cap. .1 mf. 400 volt	2228-9	Grid clips		3030-2
61	Resistor 20,000 ohm 1/2 W.	2226-8	P.B. escutcheon		4646
64 to 69	2nd. I-F Assy. complete	4545	Dial escutcheon		4540-4
	Coil K-4585, Trimmer K-2932-1	2226-6 2226-5 2228-9 2227-7 2226-3 2226-1 4663 1611-2 3442-1	Knob - tuning		3961-2
	Cap. Mica 100 mmf.(Part of Trimmer)		Knob - volume - off		3961-3
	Resistor 50,000 ohms		Knob - Tone		3711-3
	Resistor .1 meg. 1/2 watt		P.B. Knob		4365-1
70	Cap. .1 mf. 400 volt	2228-9	Felt Washers		2491-4
71	Cap. .02 mf. 200 volt	2227-7	Station Names		4649
72	Resistor 1/2 meg. 1/2 watt	2226-3	Celluloid disc (10 per set)		4650
73	Resistor 2 meg. 1/2 watt	2226-1	Instruction folder (English)		4661
74	Volume Control 2 meg.	4663	Instruction folder (French)		4662
75	Cap. 100 mmf. mica	1611-2	Escutcheon pin		3967
76	Cap. 5 mf. 25 volt D.E.	3442-1	Escutcheon screws		3746-2
77			Chassis screws		1033-7
78					

REALIGNING DETAILS

- I.F.: With .1 mf. capacitor in generator lead, set to 470 K.C., connect input to 1st. detector and adjust I-F trimmers, items 54, 55, 67 and 68.
- R.F.: (B.C.) Close gang; top of pointer should be in line with bottom of dial scale calibration. With 100 mmf. capacitor in generator lead, connect to antenna terminal. At 1600 K.C. adjust item 31 and rock tuning gang while adjusting antenna trimmer, item 50. Next move signal generator and dial pointer to 600 K.C. and adjust iron core item 29. Finally adjust antenna iron core, item 4 for maximum output.
- R.F.: (S.W.) With 400 ohm carbon resistor in generator lead, set to 15 M.C. and adjust oscillator (S.W.) trimmer, item 25; rock gang and adjust antenna trimmer item 5. Next move generator and receiver to 6.0 M.C., adjust osc. iron core item 24 and antenna iron core item 4. Repeat for maximum sensitivity.

SOCKET VOLTAGES

Heaters	-	6.3		
Rect. Fil.	-	5.0	I-F Screen	- 75-85 volt
Screen 6F6G	-	220-225 volt	6F5 Audio Plate	- 105-110 V.
Oscillator Plate	-	115-130 volt	Bias 6F6G	- 12.5-14 V.
I-F Plate	-	220-225 volt	Bias 6A8-6K7-6F5	- 1.7 - 2.0 V.

D.C. RESISTANCE OF COILS (OHMS)

S.W. Ant. Transformer (Item 2 & 3)	Below 0.5		
B.C. Ant. Transformer (Items 7,8 & 9)	P-14.0 S1-2.5 S2-2.5	Loudspeaker V.C.	- 3.0
R-F Choke (Item 17)	Below 0.5	O.T. Primary	-500.0
S.W. Osc. (Item 22 & 23)	Below 0.5	O.T. Secondary	-Below 0.5
B.C. Osc. (Item 28)	- 3.0	P.T. Primary	-12.5
1st. I.F. (Item 52 & 53)	P-16.0 S-11.5	P.T. Rect.Fil.	-Below 0.5
2nd. I.F. (Item 65 & 66)	P-16.0 S-16.0	P.T. Secondary	-700.0
Loudspeaker Field (Item 89, 90)	1,000	Heaters	-Below 0.5